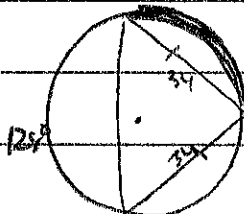
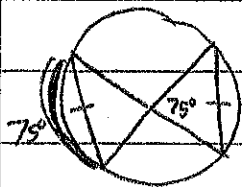


10.3 HW p 667-669 3-11, 18-20, 24, 30

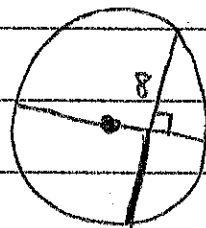
3. 75°

4. 116°

5. 8



$$\begin{array}{r} 360 \\ -128 \\ \hline 232 \\ \div 2 \\ \hline 116 \end{array}$$



6. $4x = 3x + 7$

$x = 7$

diam \perp chord bis

7. $5x - 6 = 2x + 9$

$3x = 15$

$x = 5$

8. $6x + 9 = 8x - 13$

$22 = 2x$

$11 = x$

all radii in a circle
have same measure

9. $5x - 7 = 18$

$5x = 25$

$x = 5$

chords equal to
center are \cong

10.

$2(3x + 2) = 22$

$3x + 2 = 11$

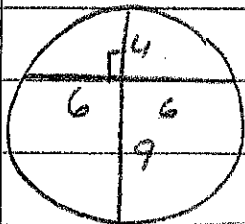
$x = 3$

11. $4x + 1 = x + 8$

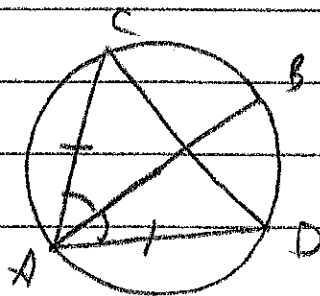
$3x = 7$

$x = \frac{7}{3}$

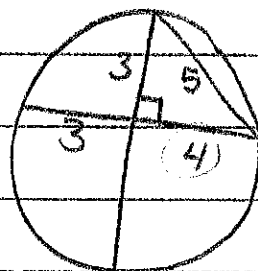
18. yes diam

 \perp bis. of chord
is diam

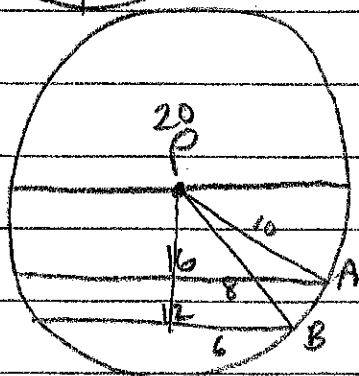
19. yes diam

 $\cong \Delta$ s so \perp bis

20. no not bisected



24.



$$\sin x = \frac{8}{10}$$

$$x \approx 53.1^\circ$$



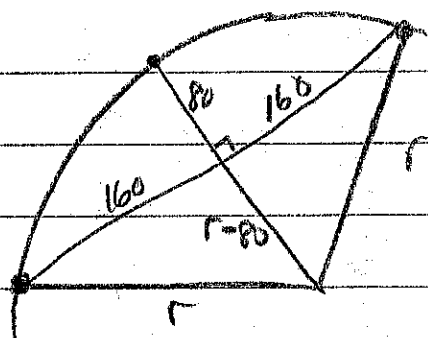
$$\sin y = \frac{6}{10}$$

$$y \approx 36.9$$

$$\begin{array}{r} 53.1 \\ -36.9 \\ \hline 16.2 \end{array}$$

$16.2^\circ \approx m\angle AB$

30.



$$r^2 = 160^2 + (r-80)^2$$

$$r^2 = 25600 + r^2 - 160r + 6400$$

$$-32000 = -160r$$

$$200 = r$$

(a) 200 ft

(b) $S = 3.86 \sqrt{fr}$

$$3.86 \sqrt{.7(200)}$$

146

$$3.86 \cdot 11.8$$

$S \approx 45.7 \text{ mi/h}$